

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method comprising:
determining_a by a computing device_a based at least in part on content of a valid locator of a first information page requested to be retrieved and displayed on a client system, whether to provide information browsing assistance for the first information page, said determining including analyzing a pattern of the locator of the first information page to determine whether the locator satisfies a pre-specified locator pattern, wherein each pre-specified locator pattern does not comprise a locator of the first information page and each ~~pre-specified locator pattern identifying~~ identifies a plurality of additional valid locators of a plurality of additional locations having additional complementary or related information that amplifies information of the first information page, the analyzing including comparing the locator pattern against a plurality of pre-specified locator patterns; and
conditionally providing by the computing device said information browsing assistance based at least in part on said determination, the information browsing assistance including all or a portion of the additional complementary or related information.
2. (Currently Amended) The method of claim 1, wherein ~~determining comprises~~ determining based at least in part content of a ~~the valid locator comprising comprises~~ a valid uniform resource locator (URL).
3. (Cancelled).
4. (Previously Presented) The method of claim 1, wherein
said valid locator comprises a valid uniform resource locator (URL);
said pre-specified locator pattern is a pre-specified URL pattern, and said determining comprises analyzing whether said valid URL satisfies the pre-specified URL pattern.

5. (Previously Presented) The method of claim 4, wherein
said pre-specified URL pattern comprises a URL pattern abstracting a plurality of
valid URLs of the plurality of locations having information that amplifies the information of
the first information page; and
said analysis comprises matching said valid URL against a plurality of URL patterns.
6. (Original) The method of claim 5, wherein
each URL pattern comprises a plurality of portions correspondingly stored in a
plurality of nodes of a tree data structure, with the plurality of nodes having a child leaf node
specifying information browsing assistance to be provided; and
said matching comprises traversing said tree data structure.
7. (Previously Presented) The method of claim 6, further comprising downloading by
the computing device said tree data structure from a server system onto said client system.
8. (Previously Presented) The method of claim 5, further comprising downloading by
the computing device said URL patterns and their corresponding information browsing
assistance specifications from a server system onto said client system.
9. (Cancelled).
10. (Original) The method of claim 1, wherein said information browsing assistance
comprises displaying a second information page.
11. (Original) The method of claim 10, wherein said second information page effectively
replaces said first information page.
12. (Original) The method of claim 10, wherein said second information page is
additionally displayed complementing said first information page.

13. (Previously Presented) The method of claim 10, wherein said second information page comprises the additional locators and/or the additional information.

14. (Previously Presented) The method of claim 1, wherein said information browsing assistance comprises modifying one or more environment attributes of the browsing environment within which said determining and conditional provision of information browsing assistance are performed.

15. (Previously Presented) The method of claim 14, wherein said one or more environment attributes comprise one or more of a display resolution attribute, a color resolution attribute, a font selection attribute, a media player preference attribute, an add-on selection attribute, and a plug-in selection attribute.

16. (Previously Presented) The method of claim 1, further comprising receiving by the computing device a request to retrieve and display said first information page, said request including said locator.

17. (Previously Presented) The method of claim 16, further comprising:
in response to said receiving, notifying, by the computing device, a monitor function of a browser helper of said receiving; and

said monitor function, in response to receipt of said notification, notifying an analyzer function of said browser helper, which performs said determining and conditional provision of information browsing assistance.

18. (Previously Presented) The method of claim 17, further comprising executing by the computing device said monitor function as an extension of a browser, and executing said analyzer function external to said browser.

19. (Currently Amended) An apparatus comprising:
storage medium having stored therein executable instructions designed to enable the apparatus to:

determine, based at least in part on content of a valid locator of a first information page requested to be retrieved and displayed, whether to provide information browsing assistance for the first information page, including to analyze the content for a pattern of the locator of the first information page to ascertain whether the locator satisfies a pre-specified locator pattern, wherein each pre-specified locator pattern does not comprise a locator of the first information page and identifies each pre-specified locator pattern identifying a plurality of additional valid locators of a plurality of additional locations having additional complementary or related information that amplifies information of the first information page, the analyzing including comparing the locator pattern against a plurality of pre-specified locator patterns; and

conditionally provide said information browsing assistance based at least in part on said determination, the information browsing assistance including all or a portion of the additional complementary or related information; and
at least one processor coupled to the storage medium to execute the executable instructions.

20. (Previously Presented) The apparatus of claim 19, wherein said valid locator comprises a valid uniform resource locator (URL).

21. (Cancelled).

22. (Previously Presented) The apparatus of claim 19, wherein
said valid locator comprises a valid uniform resource locator (URL); and
said pre-specified locator pattern is a pre-specified URL pattern and said executable instructions designed to enable the apparatus to determine whether to provide information

browsing assistances comprise instructions designed to enable the apparatus to analyze whether said valid URL satisfies the pre-specified URL pattern.

23. (Previously Presented) The apparatus of claim 22, wherein
said pre-specified URL pattern comprises a URL pattern abstracting a plurality of valid URLs of the plurality of locations having information that amplifies the information of the first information page; and

said executable instructions designed to enable the apparatus to analyze whether said valid URL satisfies a pre-specified URL pattern comprise instructions designed to enable the apparatus to match said valid URL against a plurality of URL patterns.

24. (Previously Presented) The apparatus of claim 23, wherein
each URL pattern comprises a plurality of portions correspondingly stored in a plurality of nodes of a tree data structure, with the plurality of nodes having a child leaf node specifying information browsing assistance to be provided; and

said executable instructions designed to enable the apparatus to match said valid URL against a plurality of URL patterns comprise instructions designed to enable the apparatus to traverse said tree data structure.

25. (Previously Presented) The apparatus of claim 19, wherein said executable instructions designed to enable the apparatus to provide said information browsing assistance include instructions designed to enable the apparatus to display a second information page.

26. (Previously Presented) The apparatus of claim 25, wherein said executable instructions designed to enable the apparatus to display said second information page include instructions designed to enable the apparatus to display said second information page in a manner that effectively replaces said first information page.

27. (Previously Presented) The apparatus of claim 25, wherein said executable instructions designed to enable the apparatus to display said second information page include

instructions designed to enable the apparatus to display said second information page complementary to said first information page.

28. (Previously Presented) The apparatus of claim 25, wherein said second information page comprises the additional locators and/or the additional information.

29. (Previously Presented) The apparatus of claim 19, wherein said executable instructions designed to enable the apparatus to provide said information browsing assistance include instructions designed to enable the apparatus to modify one or more environment attributes of a browsing environment within which said executable instructions designed to determine whether to provide information browsing assistance and conditionally provide said information browsing assistance are performed.

30. (Previously Presented) The apparatus of claim 29, wherein said one or more environment attributes comprise one or more of a display resolution attribute, a color resolution attribute, a font selection attribute, a media player preference attribute, an add-on selection attribute, and a plug-in selection attribute.

31. (Original) The apparatus of claim 19, wherein said executable instructions are further designed to enable the apparatus to receive a request to retrieve and display said first information page, said request including said locator.

32. (Previously Presented) The apparatus of claim 31, wherein said executable instructions are designed to implement a browser helper including at least a monitor function and an analyzer function, with the monitor function of the browser helper being designed to receive a notification of said receipt, and in response, notifying said analyzer function of receipt of said notification, said executable instructions designed to enable the apparatus to implement an analyzer function includes the instructions designed to enable the apparatus to determine whether to provide information browsing assistance and the instructions designed to enable the apparatus to conditionally provide information browsing assistance .

33. (Previously Presented) The apparatus of claim 32, wherein said executable instructions are designed to enable the apparatus to implement said monitor function as an extension of a browser, and said analyzer function as an external function to said browser.

34. (Original) The apparatus of claim 33, wherein the apparatus is a selected one of a wireless telephone, a palm sized personal digital assistant, a notebook computer, a desktop computer, and a set top box.

35. (Currently Amended) A method comprising:

receiving by a computing device a request from a client system for executable instructions designed to enable the client system to conditionally provide information browsing assistance, based at least in part on content of a valid locator of a first information page requested to be retrieved and displayed, said providing further based on an analysis of the content for a locator pattern to determine whether the locator satisfies a pre-specified locator pattern, wherein each pre-specified locator pattern does not comprise a locator of the first information page and identifies each pre-specified locator pattern identifying a plurality of additional valid locators of a plurality of additional locations having additional complementary or related information that amplifies content of the first information page, the information browsing assistance including all or a portion of the additional complementary or related information, the analyzing including comparing the locator pattern against a plurality of pre-specified locator patterns; and

in response, providing, by the computing device, said client system with said requested executable instructions.

36. (Previously Presented) The method of claim 35, wherein said valid locator comprises a valid uniform resource locator (URL).

37. (Previously Presented) The method of claim 35, wherein said executable instructions are designed to perform a selected one of (a) enabling the client system to determine whether

the pre-specified locator pattern is met, and (b) enabling the client system to provide said valid locator to a server system for the server system to determine for said client system whether the pre-specified locator pattern is met.

38. (Previously Presented) The method of claim 37, wherein said server system is the same server system performing said receiving and said responsive providing.

39. (Previously Presented) The method of claim 35, wherein
said valid locator comprises a valid uniform resource locator (URL) and said pre-specified locator pattern is a pre-specified URL pattern; and
said executable instructions are designed to perform a selected one of (a) to enable the client system to determine whether said valid URL satisfies the pre-specified URL pattern, and (b) to enable the client system to provide said valid URL to a server system for the server system to determine for said client system whether the pre-specified locator pattern is met.

40. (Previously Presented) The method of claim 39, wherein
said pre-specified URL pattern comprises a URL pattern abstracting a plurality of valid URLs of the plurality of locations having content that amplifies the information of the first information page; and
either (a) said executable instructions are designed to enable the client system to match said valid URL against a plurality of URL patterns, or (b) the method further comprises a server system matching said valid URL against a plurality of URL patterns for said client system.

41. (Previously Presented) The method of claim 40, wherein
each URL pattern comprises a plurality of portions correspondingly stored in a plurality of nodes of a tree data structure, with the plurality of nodes having a child leaf node specifying information browsing assistance to be provided; and
either (a) said executable instructions are designed to enable the client system to perform said matching by traversing said tree data structure, or (b) the method further

comprises a server system performing said matching by traversing said tree data structure for said client system.

42. (Previously presented) The method of claim 35, wherein either (a) said executable instructions are designed to enable the client system to provide said information browsing assistance by displaying a second information page, or (b) the method further comprises a server system providing said information browsing assistance to said client system by causing a second information page to be displayed on said client system.

43. (Original) The method of claim 42, wherein said second information page is displayed in a manner that effectively replaces said first information page.

44. (Original) The method of claim 42, wherein said second information page is additionally displayed in a manner that is complementary to said first information page.

45. (Previously Presented) The method of claim 42, wherein said second information page comprises the additional locators and/or the additional information.

46. (Previously Presented) The method of claim 35, wherein either (a) said executable instructions are designed to enable the client system to provide said information browsing assistance by modifying one or more environment attributes of the browsing environment of said client system, or (b) the method further comprises a server system providing said information browsing assistance to said client system by modifying an environment attribute of the browsing environment of said client system.

47. (Previously Presented) The method of claim 46, wherein said one or more environment attributes comprise one or more of a display resolution attribute, a color resolution attribute, a font selection attribute, a media player preference attribute, an add-on selection attribute, and a plug-in selection attribute.

48. (Previously presented) The method of claim 35, wherein said executable instructions are designed to implement a browser helper including at least a monitor function, designed to receive a notification of a receipt of a request for said first information page, and in response, notifying an analyzer function of receipt of said notification.

49. (Previously Presented) The method of claim 48, wherein either (a) said browser helper further includes said analyzer function to perform said conditional provision of information browsing assistance, in response to receipt of said notification, or (b) the method further includes a server having said analyzer function to perform said conditional provision of information browsing assistance for said client system, in response to receipt of said notification from said client system.

50. (Currently Amended) A server system comprising:

storage medium having stored therein

first executable instructions designed to enable a client system to conditionally provide information browsing assistance based at least in part on content of a valid locator of a first information page requested to be retrieved and displayed, said provide further based on an analysis of a pattern of the locator of the first information page to determine whether the locator satisfies a pre-specified locator pattern, wherein each pre-specified locator pattern does not comprise a locator of the first information page and identifies~~each pre-specified locator pattern identifying~~ a plurality of additional valid locators of a plurality of additional locations having additional complementary or related information that amplifies content of the first information page, the information browsing assistance including all or a portion of the additional complementary or related information, the analysis including comparing the locator pattern against a plurality of pre-specified locator patterns, and

second executable instructions designed to provide the client system with said first executable instructions in response to a request by the client system for said first executable instructions; and

at least one processor coupled to the storage medium to execute said second executable instructions.

51. (Previously Presented) The server system of claim 50, wherein said valid locator comprises a valid uniform resource locator (URL).

52. (Previously Presented) The server system of claim 50, wherein said first executable instructions are designed to (a) enable the client system to determine whether the pre-specified locator pattern is met, or (b) request that the server system determine for said client system whether the pre-specified locator pattern is met.

53. (Previously Presented) The server system of claim 50, wherein said valid locator comprises a valid uniform resource locator (URL), and said pre-specified locator pattern is a pre-specified URL pattern.

54. (Previously Presented) The server system of claim 53, wherein said pre-specified URL pattern abstracts a plurality of valid URLs of the plurality of additional locations having the additional complementary or related information that amplifies the content of the first information page; and said first executable instructions are designed to enable the client system to match said valid URL against a plurality of URL patterns or request that the server system match said valid URL against the plurality of URL patterns.

55. (Previously Presented) The server system of claim 54, wherein each URL pattern comprises a plurality of portions correspondingly stored in a plurality of nodes of a tree data structure, with the plurality of nodes having a child leaf node specifying information browsing assistance to be provided; and said first executable instructions designed to enable the client system to match said valid URL against the plurality of URL patterns include instructions designed to enable the client system to traverse the tree data structure.

56. (Previously Presented) The server system of claim 50, wherein said first executable instructions designed to enable the client system to provide said information browsing assistance include instructions designed to enable the client system to display a second information page.

57. (Previously Presented) The server system of claim 56, wherein said instructions designed to enable the client system to display a second information page include instructions designed to enable the client system to display said second information page in a manner that effectively replaces said first information page.

58. (Previously Presented) The server system of claim 56, wherein said instructions designed to enable the client system to display a second information page include instructions designed to enable the client system to additionally display said second page in a manner that is complementary to said first information page.

59. (Previously Presented) The server system of claim 56, wherein said second information page comprises the additional locators and/or the additional information.

60. (Previously Presented) The server system of claim 50, wherein said first executable instructions designed to (a) enable the client system to provide said information browsing assistance include instructions designed to enable the client system to modify at least an environment attribute of the browsing environment of said client system or (b) request that the server system provide said information browsing assistance to said client system include instructions designed to enable the client system to modify at least the environment attribute of the browsing environment of said client system.

61. (Previously Presented) The server system of claim 60, wherein each of said environment attribute comprises one or more of a display resolution attribute, a color

resolution attribute, a font selection attribute, a media player preference attribute, an add-on selection attribute, and a plug-in selection attribute.

62. (Previously Presented) The server system of claim 50 wherein said first executable instructions are designed to implement a browser helper including at least a monitor function designed to receive a notification of a receipt of a request for said first information page, and in response, notifying an analyzer function of receipt of said notification.

63. (Original) The server system of claim 62, wherein said browser helper further includes said analyzer function to perform said conditional provision of information browsing assistance, in response to receipt of said notification.

64. (Currently Amended) An article of manufacture comprising:

a computer readable storage device; and

a plurality of executable instruction stored in the computer readable storage device, and designed to enable a client system to conditionally provide information browsing assistance to itself based at least in part on content of a valid locator of an information page requested to be retrieved and displayed on the client system, said provide further based on an analysis of the content for a pattern of the locator of the information page to determine whether the locator satisfies a pre-specified locator pattern, wherein each pre-specified locator pattern does not comprise a locator of the first information page and identifies each pre-specified locator pattern identifying a plurality of additional valid locators of a plurality of additional locations having additional complementary or related information that amplifies information of the information page, the analysis including comparing the locator pattern against a plurality of pre-specified locator patterns, the information browsing assistance including all or a portion of the additional complementary or related information.

65. (Currently Amended) A computer readable storage device comprising:

a computer readable storage medium; and

at least a first or a second plurality of executable instructions stored in the computer readable storage medium,

the first executable instructions designed to enable a first server system to provide a first client system with third executable instructions in response to a request by the first client system for said third executable instructions, the third executable instructions designed to enable the first client system to conditionally provide information browsing assistance to itself based at least in part on content of a first valid locator of a first information page requested to be retrieved and displayed on the first client system, said provide further based on an analysis of the content for a locator pattern to determine whether the first locator satisfies a first pre-specified locator pattern, wherein each pre-specified locator pattern does not comprise a locator of the first information page and identifies each pre-specified locator pattern identifying a first plurality of additional valid locators of a first plurality of additional locations having first additional complementary or related information that amplifies information of the first information page, the analysis including comparing the locator pattern of the first locator against a plurality of pre-specified locator patterns, the information browsing assistance including all or a portion of the first additional complementary or related information, and

the second executable instructions designed to enable the first or a second server system to conditionally provide information browsing assistance to a second client system based at least in part on content of a second valid locator of a second information page requested to be retrieved and displayed for said second client system, said provide further based on an analysis of a pattern of the second locator of the second information page to determine whether the second locator satisfies a second pre-specified locator pattern corresponding to a second plurality of additional locators of a second plurality of additional locations having second additional complementary or related information that amplifies information of the second information page, the analysis including comparing the locator pattern of the second locator against a plurality of pre-specified locator patterns, the information browsing assistance including all or a portion of the second additional complementary or related information.

66. (Currently Amended) An apparatus comprising:

means for determining based at least in part on content of a valid locator of a first information page requested to be retrieved and displayed on a client system, whether to provide information browsing assistance for the first information page, said determining including analyzing a pattern of the locator of the first information page to determine whether the locator satisfies a pre-specified locator pattern, wherein each pre-specified locator pattern does not comprise a locator of the first information page and identifies each pre-specified locator pattern identifying a plurality of additional valid locators of a plurality of additional locations having additional complementary or related information that amplifies content of the first information page, the analyzing including comparing the locator pattern against a plurality of pre-specified locator patterns; and

means for conditionally providing said information browsing assistance based at least in part on said determination, the information browsing assistance including all or a portion of the additional complementary or related information.

67. (Currently Amended) A method comprising:

inputting by a computing device a plurality of pre-specified locator patterns, wherein each pre-specified locator pattern does not comprise a locator of a first information page and identifies each pre-specified locator pattern identifying a plurality of additional valid locators of a plurality of additional locations having additional complementary or related information that amplifies content of ~~a~~ the first information page; and

initiating by the computing device a system that performs the operations of
determining based at least in part on content of a valid locator of a first information page requested to be retrieved and displayed, whether to provide information browsing assistance for the first information page, said determining including analyzing the content for a pattern of the locator of the first information page to determine whether the locator satisfies at least one of the plurality of pre-specified locator patterns, the analyzing including comparing the locator pattern against the plurality of pre-specified locator patterns; and

conditionally providing said information browsing assistance based at least in part on said determination, the information browsing assistance including all or a portion of the additional complementary or related information.